

MISSOURI RIVER

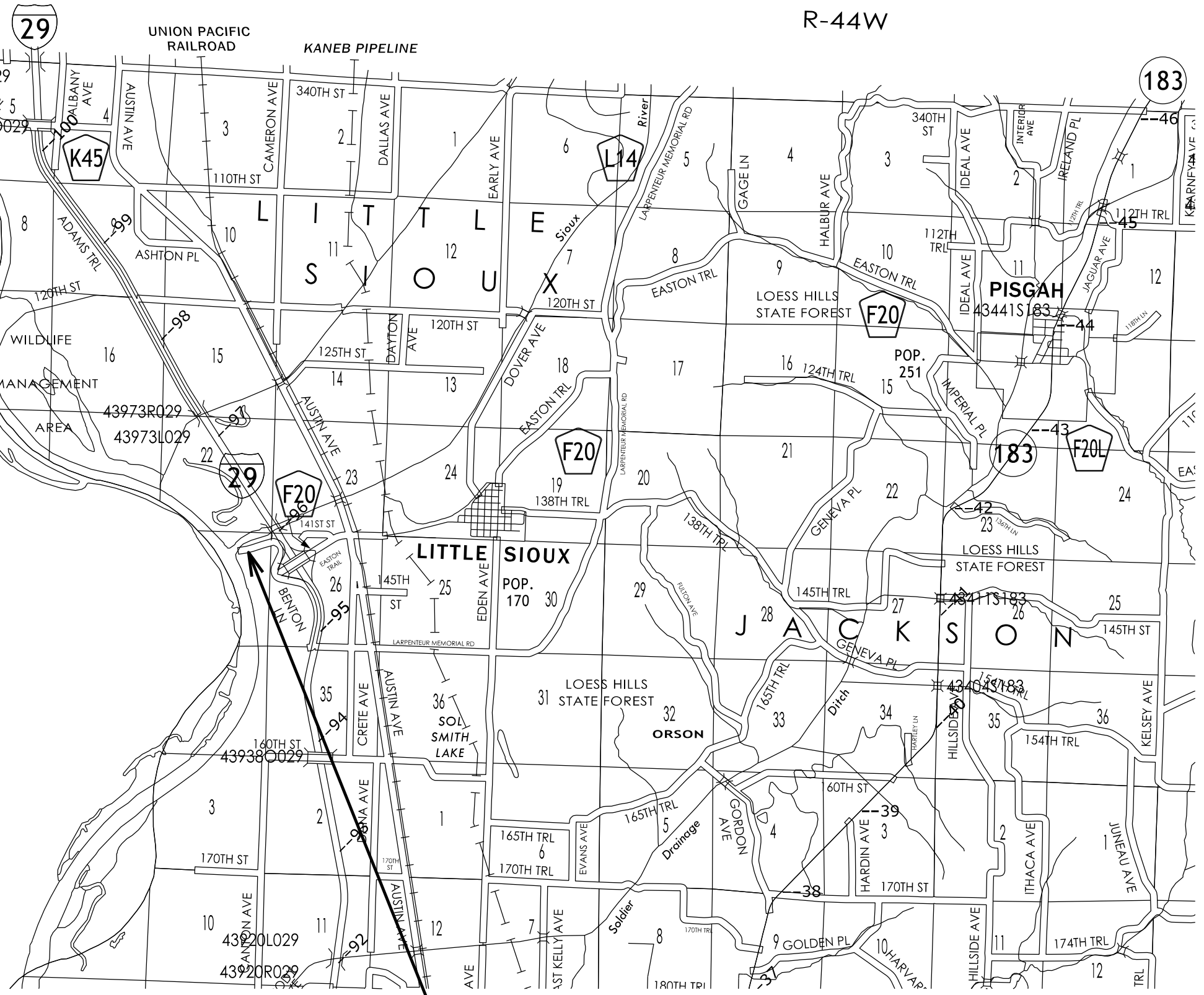
MONONA CO.

R-45W

R-44W

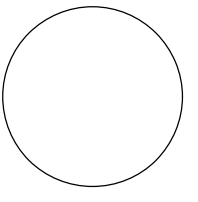
N E B R A S K A

T-81N



PROJECT LOCATION

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES
 ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



PROJECT LOCATION MAP

PARKING LOT EXPANSION FOR:

LITTLE SIOUX DELTA ACCESS

HARRISON COUNTY

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER: 23-04-43-01

CHK'D BY: DATE:

SHEET No:

A.02

MUTCD R7-8
SOLID GREEN LEGEND
AND BORDER
REFLECTIVE WHITE
BACKGROUND
WHITE ACCESSIBILITY
SYMBOL ON
BLUE BACKGROUND

MUTCD R7-8P
SOLID GREEN LEGEND
AND BORDER
REFLECTIVE WHITE
BACKGROUND
REQUIRED FOR VAN
ACCESSIBLE
SPACES ONLY

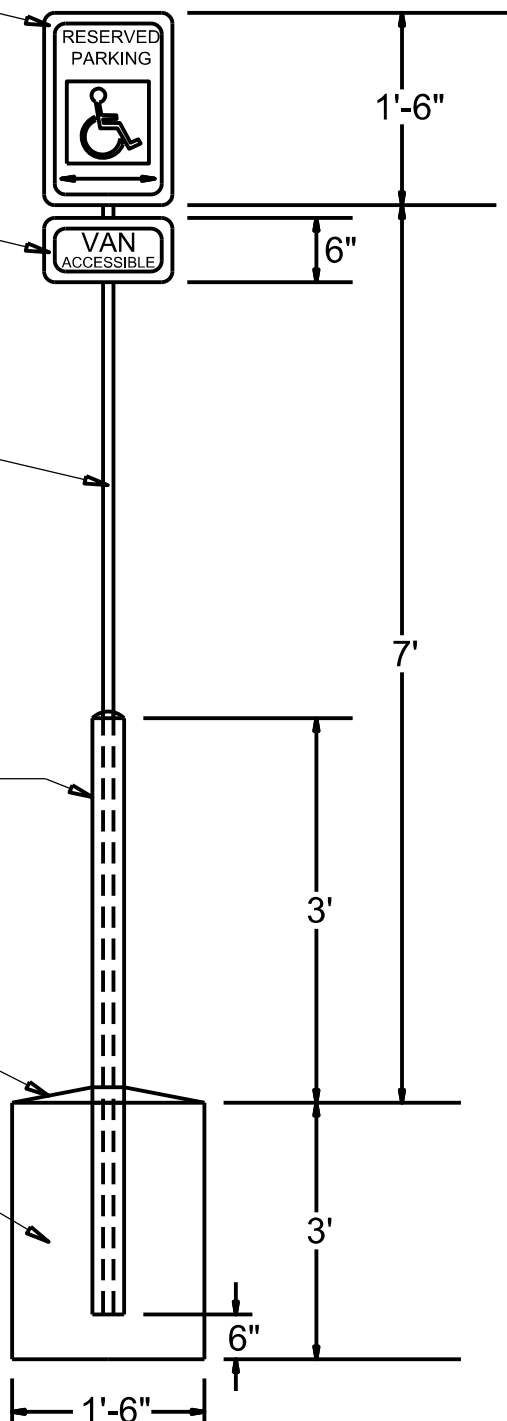
"U"-CHANNEL
POST (2 LBS./FT.)

USE 6" PIPE BOLLARD
FILLED W/CONCRETE
AND PAINTED TRAFFIC
YELLOW ONLY WHEN
SIGN IS IN PAVED AREA
OR SIDEWALK

SLOPE TOP OF
CONCRETE

GROUND/PAVING
SURFACE

3500 P.S.I. P.C.
CONCRETE
(WHEN PIPE
BOLLARD IS NOT
INSTALLED,
FOUNDATION
NOT REQUIRED)

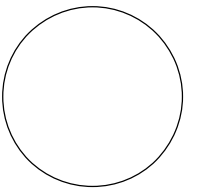


NOTES

1. 12"x18" ACCESSIBILITY SIGN (R7-8) SHALL BE MOUNTED 7' FROM FINISH GRADE TO BOTTOM EDGE OF SIGN FACE. MOUNTING HEIGHT MAY BE REDUCED TO 5' IF PLACED IN A LANDSCAPE AREA IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
2. BOLLARD MAY BE OMITTED IF INSTALLED IN LANDSCAPE AREAS. WHEN INSTALLED IN LANDSCAPE AREAS, MOUNTING POST SHALL BE DRIVEN A MINIMUM OF 3' BELOW FINISHED GRADE. ALTERNATE MOUNTING POSTS MUST BE APPROVED BY THE FIELD INSPECTOR PRIOR TO CONSTRUCTION.
3. SIGNAGE SHALL BE INSTALLED IN FRONT OF EACH ACCESSIBLE SPACE, CENTERED ON THE WIDTH OF THE SPACE.
4. REFER TO AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES (ADAAG), LATEST EDITION, FOR REQUIRED NUMBER OF ACCESSIBLE SPACE. PER ADAAG, ONE VAN ACCESSIBLE SPACE SHALL BE PROVIDED, MINIMUM, WITH ADDITIONAL VAN ACCESSIBLE SPACES PER ADAAG REQUIREMENTS.
5. ALL SIGNAGE SHALL BE ENGINEER GRADE .080 ALUMINUM REFLECTIVE SIGN MEETING THE REQUIREMENTS OF THE MUTCD AND ADAAG.

HANDICAP SIGN DETAIL
NOT TO SCALE

CONSULTANT:



**IOWA DEPARTMENT OF
NATURAL RESOURCES**

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



TYPICAL CROSS SECTIONS AND DETAILS

PARKING LOT EXPANSION FOR:
LITTLE SIOUX DELTA ACCESS
HARRISON COUNTY

NO.	DATE	BY	REVISION

DRAWN BY: PROJECT NUMBER:
23-04-43-01

CHK'D BY: DATE:

SHEET No: **B.01**

ESTIMATED PROJECT QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	Grading	Lump Sum	1
2	Macadam	Tons	963
3	1" Crushed Road Stone	Tons	652
4	CMP, 24"	LF	73
5	Site Restoration	Lump Sum	1
6	6" PCC, Reinforced	SY	159
7	Special Backfill	Tons	63
8	Pavement Striping	LF	156
9	Signs, ADA Parking	Each	2
10	Clearing and Grubbing	Lump Sum	1
11	Traffic Control	Lump Sum	1

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
3	A. This line item shall meet the requirements of Granular Surfacing, but modified to meet the gradation requirements on this sheet.
4	A. This line item shall meet the requirements of Corrugated Culverts, but modified to eliminate Class B Bedding. Soil borrowed from site shall be used for bedding and backfill.
5	A. This line item consists of seeding, fertilizing, and mulching all disturbed areas not covered by rock or concrete. B Seed shall be Iowa DOT Permanent, Rural mix.
6	A. PCC shall be standard or slip form, C-mix B. Concrete shall be reinforced with #4 bars 24" on center. C. Control joints shall be at approximately 9 feet centers both ways for the parking spaces, and every 5 feet for the sidewalk, and are incidental to this line item. D. Joint sealing shall be incidental to this line item.
7	A. Rock base shall extend 2 feet beyond edge of the PCC pavement.
8	A. Paint color shall be yellow. B. Hatched area shall have 4 ft. spacing.
9	A. Post material is incidental to this line item.
10	A. This line item consists of clearing and grubbing the site. This includes the removal of downed woody debris. Large diameter trunk sections shall be limbed and placed along the eastern end of the parking lot to act as a traffic barrier. All other debris may be stockpiled adjacent to the project site, as directed by the field engineer.
11	A. Traffic control shall consist of barricades, cones, snowfence, etc. necessary to protect the construction site. B. The boat ramp will remain open during construction, with limited closures as necessary.

1" Crushed Road Stone						
Seive Size	1-1/2"	1.00"	3/4"	4	8	200
% Passing	100	95-100	70-90	30-55	15-40	6-16

GENERAL NOTES

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with all applicable codes and ordinances.

The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.

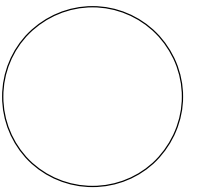
The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.

The contractor is expected to have materials, equipment, and labor available on a daily basis to install and maintain erosion control features on the project. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES
 ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



QUANTITIES AND GENERAL INFORMATION

PARKING LOT EXPANSION FOR:
LITTLE SIOUX DELTA ACCESS
 HARRISON COUNTY

NO.	BY	REVISION

DRAWN BY:	PROJECT NUMBER:
	23-04-43-01
CHK'D BY:	DATE:

SHEET NO:

C.01

Little Sioux River

Granular surfaced parking lot
 Grade lot, place 3" of 1" Crushed Road Stone over
 5" of Macadam
 Grading - Lump Sum
 Macadam - 963 Tons
 1" Crushed Road Stone - 622 Tons
 Site Restoration - Lump Sum
 Traffic Control - Lump Sum

Feather new surfacing into existing
 parking lot
 1" Crushed Road Stone - 30 tons

Existing Boat Ramp

See Sheet D.02

Existing pavement

Place large tree trunks
 along eastern edge of
 the parking lot

Match Existing
 Elevation



Earthwork Summary	Cut (CY)	Fill (CY)
Main Parking Lot	625	762
ADA Parking Spaces	189	9
TOTAL	814	771

existing survey 5' contour —————
 existing survey 1' contour - - - - -
 finish grade 5' contour —————
 finish grade 1' contour - - - - -
 edge of new rock —————
 grading breakline - - - - -

CONSULTANT:

**IOWA DEPARTMENT OF
 NATURAL RESOURCES**

ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



SITE PLAN

PARKING LOT EXPANSION FOR:

LITTLE SIOUX DELTA ACCESS

HARRISON COUNTY

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:

23-04-43-01

CHK'D BY: DATE:

SHEET No.:

D.01

Existing Boat Ramp

Match Existing Sidewalk

Core out and pave 6" PCC over 6" of Special Backfill
 6" Special Backfill - 63 Tons
 6" PCC, reinforced - 184 SY
 Pavement Striping - 156 LF

Sign - ADA Parking - 2 Each

Edge of Cut

Special Backfill extends 2' beyond the edge of the PCC

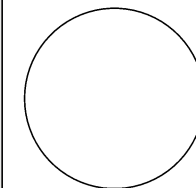
Pavement Striping, Yellow - 156 LF



Earthwork Summary	Cut (CY)	Fill (CY)
Main Parking Lot	625	762
ADA Parking Spaces	189	9
TOTAL	814	771

existing survey 5' contour —————
 existing survey 1' contour - - - - -
 finish grade 5' contour —————
 finish grade 1' contour - - - - -
 edge of new rock grading breakline - - - - -

CONSULTANT:



IOWA DEPARTMENT OF NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
 502 E. 9TH ST., DES MOINES, IA 50319-0034



SITE PLAN

PARKING LOT EXPANSION FOR:

LITTLE SIOUX DELTA ACCESS

HARRISON COUNTY

NO. BY DATE REVISION

DRAWN BY: PROJECT NUMBER:

23-04-43-01

CHK'D BY: DATE:

SHEET NO.:

D.02